

1) Display and control panel, 2) Process connection, 3) Housing rotatable 320°



Basic features

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|----------------------------|---|
| Approval/Conformity | CE UKCA cULus WEEE |
| Operating panel | 2 buttons 320° rotation 4-digit, 7-segment display, red |

Display/Operation

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|-----------------------------------|-----|
| Switching function display | LED |
|-----------------------------------|-----|

Electrical connection

| | |
|------------------------------------|----------------------------|
| Connection | M12x1-Male, 4-pin, A-coded |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|---|-------------|
| Current draw max. | 50 mA |
| Load cycles | 100 mil. |
| Operating voltage U_b | 18...30 VDC |
| Output current max. | 150 mA |
| Protection class | III |
| Switching cycles min. | 100 mil. |
| Switching frequency | 170 Hz |

Environmental conditions

| | |
|-------------------------------------|---------------------------------------|
| Ambient temperature | -40...85 °C |
| Compensation temperature | -25...85 °C |
| EN 60068-2-27, Shock | 30 g, 11 ms |
| EN 60068-2-6, Vibration | 30 g, 10...2000 Hz |
| IP rating | IP67, when threaded in |
| Interference immunity | EN 61326-1:2013 EN 61326-2-3: 2013 |
| Media temperature | -40...125 °C |
| Noise emission | EN 61326-1:2013 EN 61326-2-3: 2013 |
| Storage temperature | -40...85 °C |
| Temperature coefficient typ. | $\leq \pm 0.3\%$ FSO/10K |

Functional safety

| | |
|---------------------|-------|
| MTTF (40 °C) | 267 a |
|---------------------|-------|

IO-Link

| | |
|---------------------------|-------------|
| IO-Link Profil IDs | 0x0001 SSP0 |
|---------------------------|-------------|

Interface

| | |
|-------------------------|--|
| Analog output | Analog, voltage/Analog, current selectable 4...20 mA/0...10 V |
| Interface | IO-Link 1.1 |
| Switching output | 2x PNP/NPN NO/NC selectable |

Pressure Sensors
BSP B050-EV009-P00S2B-S4
Order Code: BSP00Y7



Material

| | |
|-----------------------------|---|
| Connector housing, material | 1.4301 stainless steel |
| Gasket, material | FKM |
| Housing material | 1.4301 stainless steel PE, High-density polyethylene |
| Measuring cell, material | Ceramic Al ₂ O ₃ |
| Process connection material | 1.4301 stainless steel |

Range/Distance

| | |
|--------------------------|-----------------|
| Accuracy | ±0.5 % FSO BFSL |
| Burst pressure | 150 bar |
| Long-term stability max. | 0.3 % FSO/year |
| Measuring range | 0...50 bar |
| Overload pressure | 100 bar |
| Repeat accuracy | ≤ ± 0.2 % FSO |
| Resolution | ≤ 14 bits |
| Response time max. | 13 ms |
| Sampling rate | 1 ms |

Mechanical data

| | |
|------------------------|-------------------|
| Process connection | G 1/4" (DIN 3852) |
| Tightening torque max. | 5 Nm |
| Weight | 230.00 g |

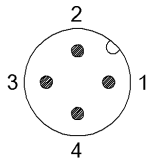
Remarks

vacuum-tight

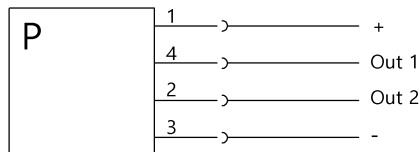
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams



Out 1=PNP/NPN/IO-Link

Out 2=PNP/NPN/4...20 mA/0...10 V